PRODUCT DATA SHEET

ITEM CODE: SEE DN
ISSUE DATE: 21/03/2026
REVIEW: NO. 9

CE

WINPOX CEMENT SL

MEETS THE EU NORM	MEETS THE EU NORM
UNI EN 1504-2(C)	UNI EN 13813 (CT)
STANDARDS	STANDARDS
PI-MC-IR	C60-F15-A9
PROTECTION OF CONCRETE SURFACE	CEMENTITIOUS SCREEDS

DESCRIPTION OF THE PRODUCT

WINPOX CEMENT SL is a three-component, self-levelling, high-strength mortar based on epoxy resins. It is specially formulated for the preparation and levelling of cementitious substrates, including damp surfaces. The product is suitable for application at thicknesses ranging from 1 to 7 mm. Developed by WINKLER Research & Development Laboratories.

FIELDS OF USE

WINPOX CEMENT SL is designed for levelling uneven and damp substrates where a high-strength, thick vapour barrier is required and where subsequent application of highly sensitive finishing products is foreseen.

It is suitable for use as a primer in systems requiring epoxy, polyurethane, or epoxy-polyurethane resin finishes, for both civil and industrial flooring applications.

WINPOX CEMENT SL can be overcoated with all WINKLER liquid membranes, with **WFZ5 -WINFLEX CEMENT** and **WINFLEX-CEMENT SUPER** systems, with cementitious adhesives from the **ROYAL SUPER SP** line, with **BOND CEMENT** waterproofing adhesive, with **ROYAL FAST** rapid-setting adhesive, and with **WINGRIP BITUMINOSO** waterproofing systems for balconies, terraces, and bathrooms.

When used in combination with **UNIBAR FORMULA** and **WINPAINT** polyurethane finishing resin, **WINPOX CEMENT TIXO** forms a highly resistant system suitable for the finishing of industrial and civil floors, both indoors and outdoors, including areas subject to vehicular traffic.

SURFACE PREPARATION

The substrate to which **WINPOX CEMENT SL** is applied must be mechanically prepared by shot blasting or scarifying and shall be clean, sound, and free from dust, loose particles, laitance, oils, grease, or other contaminants. The substrate must have a minimum tensile strength of 1.5 MPa.

To ensure continuity at corners and changes of plane, coves must be formed using **WINPOX CEMENT TIXO**.

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Reapplication of **WINPOX CEMENT SL** shall be carried out along straight, precise lines, preferably aligned with the existing movement or distribution joints in the cementitious floor. Mask the already hardened surfaces to prevent unaesthetic overlaps.
Application temperatures must be between +5°C and +35°C.

RECOMMENDATIONS

Do not add any additives or water.
Do not use the product if the packaging is damaged.
The surface must be sanded before applying subsequent products.

WARNINGS

The product must be allowed to cure completely. It is therefore recommended to ensure that no rising damp is present at the time of application and for at least the following 24 hours. Before overcoating with other products, it must be verified that the surface is completely dry.

PRODUCT PREPARATION

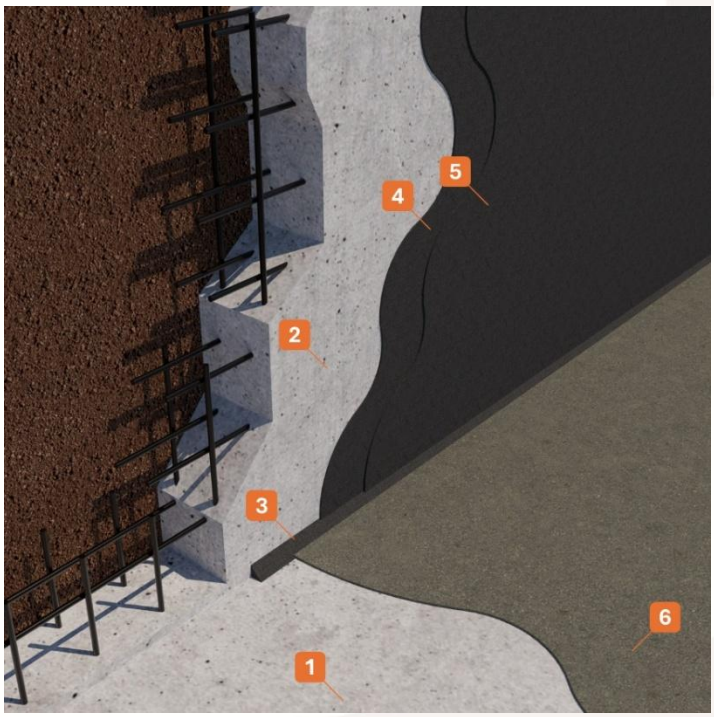
Pour Component B into Component A in a clean mixing container. Mix thoroughly using a low-speed drill, taking care to avoid the incorporation of air, until a uniform blend is obtained.
Gradually add Component C (a blend of selected binders and aggregates) while continuing to mix, until a lump-free, homogeneous mixture is obtained.

APPLICATION

Pre-wet the substrate before application. Apply **WINPOX CEMENT SL** using a trowel or straightedge to facilitate levelling. After application, pass a spiked roller over the surface to eliminate any trapped air.
The product must be applied at temperatures between +5°C and +35°C.

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LEGEND

1. Concrete substrate affected by rising damp;
2. Below-grade wall (retaining wall);
3. Cove formed with **WINPOX CEMENT TIXO**;
4. **WINPOX CEMENT TIXO**, Fist coat;
5. **WINPOX CEMENT TIXO**, Second coat;
6. **WINPOX CEMENT SL**;

APPLICATION EXAMPLES AND CONSUMPTION

Driveway:

1. **WINPOX CEMENT SL** as a vapour barrier – 4.5 kg/m² applied in two coats
2. **UNIBAR FORMULA** as primer – 150 g/m²
3. **WINPAINT** as a coloured, non-yellowing finish – 250 g/m² applied in two coats

Swimming pool system with resin finish:

1. **WINPOX CEMENT SL** as a horizontal vapour barrier - 2.1 kg/m² per mm of thickness
2. **WINFIX UNIVERSAL** as primer – 150 g/m²
3. **WINPAINT P** as a coloured, non-yellowing finish – 250 g/m² in two coats

Swimming pool system with tile finish:

1. **WINPOX CEMENT SL** as a horizontal vapour barrier - 2.1 kg/m² per mm of thickness
2. **BOND CEMENT**, **ROYAL SUPER SP,** or **ROYAL FAST** (rapid-setting adhesive) 1.5 kg/m²
3. **WINSTUCCO EPOX** – see CONSUMPTION on Technical Data Sheet

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CONSUMPTION
2.1 kg/m^2 per mm of thickness

PACKAGING
16 kg bucket A+B+C (1.20 kg +2.80 kg +12 kg)
32 kg individual packaging A+B+C (2.40 kg+5.60 kg +24 kg)

STORAGE
The product in its original and undamaged packaging, can be stored for up to 12 months in a cool, dry place. If stored at temperatures near the lower limit, the resins may tend to crystallize. This does not affect the product quality and can be reversed by gently stirring the individual components and warming them in a bain-marie up to a maximum of +50°C.

SAFETY INSTRUCTIONS

PRECAUTIONS
For safety information, the user must refer to the latest Safety Data Sheet (SDS), prepared in accordance with applicable regulations. The SDS contains detailed information on the physical, toxicological, and safety characteristics of the product.

DISPOSAL AND ENVIRONMENTAL PRECAUTIONS
Do not release the product or empty containers into the environment. For detailed disposal instructions, refer to the most recent Safety Data Sheet (SDS).

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TECHNICAL FEATURES
(average values)

FEATURES	STANDARDS	RESULTS
Colour of compound		Grey
Density at +20°C		2.10 g/cm^3
Texture		Self-levelling mortar
Pot life at +20°C		25 min
Drying times: - Dry to touch - Carefully walkable - Carefully trafficable - Second layer application - Fully cured		 5-8 hours 20 hours 24 hours 48 hours 30 days
Resistance to negative pressure (on concrete A/C = 0.6)	UNI EN12390-8	7 bar
Thermal expansion coefficient		< 15 × 10^{-6} / °C
Elastic modulus	UNI EN 6556	20 GPa

PRODUCT PERFORMACE
ACCORDING TO UNI EN 1504-2

FEATURES	STANDARD	RESULTS
Water vapour permeability	UNI EN ISO 7783	Sd > 50 m (Class III)
Capillary absorption and water permeability	UNI EN 1062-3	W < 0.0425 kg/(m^2·h$^{0.5}$)
Adhesion strength by pull-off test	UNI EN 1542	≥ 3.0 N/mm^2
Adhesion strength after 50 freeze-thaw cycles with de-icing salts	UNI EN 13687-1	≥ 4.0 N/mm^2
Reaction to fire	EN 13501-1	A2-s1, d0

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PRODUCT PERFORMACE
ACCORDING TO UNI EN 13813

FEATURES	STANDARD	RESULTS
Compressive strength	UNI EN 13892-2	30 ± 5 N/mm² (24 hours) 50 ± 5 N/mm² (3 days) 65 ± 5 N/mm² (28 days)
Flexural strength	UNI EN 13892-2	5 ± 1.5 N/mm² (24 hours) 9 ± 1.0 N/mm² (3 days) 17 ± 2 N/mm² (28 days)
Wear resistance	UNI EN 13892-3	9 cm³/50 cm²

VOLATILE ORGANIC COMPOUNDS EMISSION

PARAMETER	MAX. ALLOWED CONCENTRATION (µg/m³)
TVOC after 3 days	≤ 750
TVOC after 28 days	≤ 60

Test performed by the EUROFINS Institute according to EN 16516, ISO 16000-3/6/9/11 and ASTM D5116-10. Test report n. 392-2017-00404102_G_EN_02.

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